CONTRIBUTING AUTHORS, VOLUMES 19–23

A

Adhya, S. L., 21:453–88, 23:227–50
Albright, L. M., 23:311–36
Alt, F., 23:605–36
Anderson, P., 23:507–25
Austin, S. J., 23:37–69
Ausubel, F. M., 20:567–91; 23:311–36

B

Baker, C. C., 22:235–58
Barton, N. H., 23:237–70
Beaudet, A. L., 20:431–64
Bennett, D. C., 19:297–324
Berk, A. J., 20:45–79
Bernardi, G., 23:637–61
Blackburn, E. H., 20:501–21
Blackwell, T. K., 23:605–36
Bollag, R. J., 23:199–225
Botstein, D., 21:259–84
Brinster, R. L., 20:465–99
Buraczynska, M. J., 23:409–23

C

Carbon, J., 19:29–56
Carson, H. L., 21:405–23
Cartwright, I. L., 19:485–536
Caskey, C. T., 19:127–48
Chan, S. J., 19:463–84
Chapman, V. M., 22:199–233
Charlesworth, B., 23:227–63
Clarke, L., 19:29–56
Cloniger, C. R., 23:19–36
Cole, M. D., 20:361–84
Cowing, D. W., 19:355–88
Craig, E. A., 22:631–77
Craig, N. L., 22:77–105
Craigie, R., 20:385–429
Croce, C. M., 21:321–45
Crow, J. F., 21:1–22

D

Darlington, G. J., 19:273–96
Devor, E. J., 23:19–36
Diamond, G., 19:389–422
DiRita, V., 23:455–82
Döring, H.-P., 20:175–200
Dodson, L. A., 19:103–26
Duncan, I., 21:285–319

E

Eicher, E. M., 20:327–60
Eissenberg, J. C., 19:485–536
Epstein, C. J., 22:51–75

F

Fainsod, A., 19:389–422
Felsenstein, J., 22:521–600
Flint, J., 23:141–61
Fox, T. D., 21:67–91
Freeling, M., 19:297–324
Friedman, D. I., 21:453–88

G

Galt, J., 23:409–23
Ganetzky, B., 20:13–44
Gehring, W. J., 20:147–73
Gierl, A., 23:71–85
Gottesman, S., 23:163–98
Grant, S. G., 22:199–233
Green, M. R., 20:671–708
Gross, C. A., 19:355–88
Guarente, L., 21:425–52
Gussin, G. N., 20:567–91
Guthrie, C., 22:387–419

H

Haluska, F. G., 21:321–45
Hanahan, D., 22:479–519
Hardy, P. A., 19:149–78
Hawley, R. S., 23:87–120
Hill, C. W., 22:147–68
Hiromi, Y., 20:147–73
Hodgkin, J., 21:133–54
Howley, P. M., 22:235–58
Hoyt, M. A., 21:259–84
Huala, E., 23:311–36
Huffaker, T. C., 21:259–84

I

Imperiale, M. J., 21:453–88
Ippen-Ihler, K. A., 20:593–624

J

Jackson, M. J., 20:431–64
Joklik, W. K., 19:537–75

K

Kahl, G., 22:421–77
Kaiser, D., 20:539–66
Karrer, K. M., 20:501–21
Kaufman, S., 22:301–21
Kelly, J. H., 19:273–96
Kleckner, N., 22:567–600
Knudson, A. G. Jr., 20:231–51
Konopka, R. J., 21:227–36
Kung, C., 21:47–65
Kurachi, S., 23:409–23
Kurnit, D., 23:409–23
Kwok, S. C. M., 19:463–84

L

Lalouel, J.-M., 22:259–79
Lambert, P. F., 22:235–58
Langley, C., 23:227–63
Ledbetter, D. H., 20:109–85
Lederberg, J., 21:23–46
Lewontin, R. C., 19:81–102
Lindahl, L., 20:297–326
Lindquist, S., 22:631–77
Liskay, R. M., 23:199–225
Loeb, L. A., 20:201–30
Long, S., 23:483–506
Losick, R., 20:625–69

M

Maeda, N., 20:81–108
Mahowald, A. P., 19:149–78
Marcus, C. R., 23:87–120
Marcus, M., 19:389–422
Marinus, M. G., 21:113–31
Marsh, L., 19:103–26
Martin, P. F., 21:203–25
Meins, F., 23:395–408
Mekalanos, J., 23:455–82
Meyerowitz, E. M., 21:93–111
Miller, W., 23:371–93
Minkley, E. G. Jr., 20:593–624

CONTRIBUTING AUTHORS, VOLUMES 19–23

A

Adhya, S. L., 21:453–88, 23:227–50
Albright, L. M., 23:311–36
Alt, F., 23:605–36
Anderson, P., 23:507–25
Austin, S. J., 23:37–69
Ausubel, F. M., 20:567–91; 23:311–36

B

Baker, C. C., 22:235–58
Barton, N. H., 23:237–70
Beaudet, A. L., 20:431–64
Bennett, D. C., 19:297–324
Berk, A. J., 20:45–79
Bernardi, G., 23:637–61
Blackburn, E. H., 20:501–21
Blackwell, T. K., 23:605–36
Bollag, R. J., 23:199–225
Botstein, D., 21:259–84
Brinster, R. L., 20:465–99
Buraczynska, M. J., 23:409–23

C

Carbon, J., 19:29–56
Carson, H. L., 21:405–23
Cartwright, I. L., 19:485–536
Caskey, C. T., 19:127–48
Chan, S. J., 19:463–84
Chapman, V. M., 22:199–233
Charlesworth, B., 23:227–63
Clarke, L., 19:29–56
Cloniger, C. R., 23:19–36
Cole, M. D., 20:361–84
Cowing, D. W., 19:355–88
Craig, E. A., 22:631–77
Craig, N. L., 22:77–105
Craigie, R., 20:385–429
Croce, C. M., 21:321–45
Crow, J. F., 21:1–22

D

Darlington, G. J., 19:273–96
Devor, E. J., 23:19–36
Diamond, G., 19:389–422
DiRita, V., 23:455–82
Döring, H.-P., 20:175–200
Dodson, L. A., 19:103–26
Duncan, I., 21:285–319

E

Eicher, E. M., 20:327–60
Eissenberg, J. C., 19:485–536
Epstein, C. J., 22:51–75

F

Fainsod, A., 19:389–422
Felsenstein, J., 22:521–600
Flint, J., 23:141–61
Fox, T. D., 21:67–91
Freeling, M., 19:297–324
Friedman, D. I., 21:453–88

G

Galt, J., 23:409–23
Ganetzky, B., 20:13–44
Gehring, W. J., 20:147–73
Gierl, A., 23:71–85
Gottesman, S., 23:163–98
Grant, S. G., 22:199–233
Green, M. R., 20:671–708
Gross, C. A., 19:355–88
Guarente, L., 21:425–52
Gussin, G. N., 20:567–91
Guthrie, C., 22:387–419

H

Haluska, F. G., 21:321–45
Hanahan, D., 22:479–519
Hardy, P. A., 19:149–78
Hawley, R. S., 23:87–120
Hill, C. W., 22:147–68
Hiromi, Y., 20:147–73
Hodgkin, J., 21:133–54
Howley, P. M., 22:235–58
Hoyt, M. A., 21:259–84
Huala, E., 23:311–36
Huffaker, T. C., 21:259–84

I

Imperiale, M. J., 21:453–88
Ippen-Ihler, K. A., 20:593–624

J

Jackson, M. J., 20:431–64
Joklik, W. K., 19:537–75

K

Kahl, G., 22:421–77
Kaiser, D., 20:539–66
Karrer, K. M., 20:501–21
Kaufman, S., 22:301–21
Kelly, J. H., 19:273–96
Kleckner, N., 22:567–600
Knudson, A. G. Jr., 20:231–51
Konopka, R. J., 21:227–36
Kung, C., 21:47–65
Kurachi, S., 23:409–23
Kurnit, D., 23:409–23
Kwok, S. C. M., 19:463–84

L

Lalouel, J.-M., 22:259–79
Lambert, P. F., 22:235–58
Langley, C., 23:227–63
Ledbetter, D. H., 20:109–85
Lederberg, J., 21:23–46
Lewontin, R. C., 19:81–102
Lindahl, L., 20:297–326
Lindquist, S., 22:631–77
Liskay, R. M., 23:199–225
Loeb, L. A., 20:201–30
Long, S., 23:483–506
Losick, R., 20:625–69

M

Maeda, N., 20:81–108
Mahowald, A. P., 19:149–78
Marcus, C. R., 23:87–120
Marcus, M., 19:389–422
Marinus, M. G., 21:113–31
Marsh, L., 19:103–26
Martin, P. F., 21:203–25
Meins, F., 23:395–408
Mekalanos, J., 23:455–82
Meyerowitz, E. M., 21:93–111
Miller, W., 23:371–93
Minkley, E. G. Jr., 20:593–624

Mizuuchi, K., 20:385–429
Morel, Y., 23:371–93
Mosig, G., 21:347–71
Murgola, E. J., 19:57–80

N

Nadal-Ginard, B., 23:527–77
Nasrallah, J. B., 23:121–39
Nasrallah, M. E., 23:121–39
Nordström, K., 23:37–69
Nussbaum, R. L., 20:109–45

O

O'Brien, S. J., 22:323–51
O'Brien, W. E., 20:431–64
Orr-Weaver, T., 21:373–403

P

Pakula, A. A., 23:289–310
Palmer, J. D., 19:325–54
Palmiter, R. D., 20:465–99
Patterson, B., 22:387–419
Patton, J. G., 23:527–77
Pays, E., 22:107–26
Peterson, P. A., 23:71–85
Petes, T. D., 22:147–68
Piggot, P. J., 20:625–69
Preston, B. D., 20:201–30

R

Radman, M., 20:523–38
Raetz, C. R. H., 20:253–95
Reznikoff, W. S., 19:355–88
Rick, C. M., 22:281–300
Roman, H., 20:1–12
Ronson, C. W., 20:567–91
Russell, E. S., 19:1–28
Russell, E. S., 23:1–18

S

Saedler, H., 23:71–85
Saimi, Y., 21:47–65
Sauer, R. T., 23:289–310
Schell, J., 22:421–77
Schibler, U., 21:237–57
Scriver, C. R., 22:301–21
Seuanez, H. C., 22:323–51
Shenk, T., 23:141–61
Sheridan, W. F., 22:–353–85
Shuman, H. A., 21:155–77
Siegele, D. A., 19:355–88
Sierra, F., 21:237–57
Silver, L. M., 19:179–208
Simons, R. W., 22:567–600
Singh, R. S., 23:425–53
Smith, C. W. J., 23:527–77
Smith, G. R., 21:179–201
Smith, M., 19:423–62
Smithies, O., 20:81–108
Sofer, W., 21:203–25
Solter, D., 22:127–46
Spradling, A., 21:373–403
Stahl, F. W., 22:169–97
Starlinger, P., 20:175–200
Steiner, D. F., 19:463–84
Steinert, M., 22:107–26
Stewart, G., 23:409–23
Stout, J. T., 19:127–48

T

Thaler, D. S., 22:169–97
Thomas, G. H., 19:485–536
Thompson, M. W., 22:601–29
Thomson, G., 22:31–50
Tsujimoto, Y., 21:321–45
Turelli, M., 23:337–70

V

Van Keuren, M. L., 23:409–23
Vanin, E. F., 19:253–72

W

Wagner, R., 20:523–38
Waldman, A. S., 23:199–225
Walker, G. C., 19:103–26
Washburn, L. L., 20:327–60
Weising, K., 22:421–77
White, R. L., 22:259–79
Womack, J. E., 22:323–51
Woo, S. L., 22:301–21
Worton, R. G., 22:601–29
Wu, C.-F., 20:13–44

Y

Yamamoto, K. R., 19:209–52
Yoder, J. I., 22:281–300
Youngman, P., 20:625–69

Z

Zakian, V., 23:579–604
Zambryski, P., 22:1–30
Zengel, J. M., 20:297–326

CHAPTER TITLES, VOLUMES 19–23

INTRODUCTORY CHAPTERS		
A History of Mouse Genetics	E. J. Russell	19:1–28
The Early Days of Yeast Genetics: A Personal Narrative	H. Roman	20:1–12
Population Genetics History: A Personal View	J. F. Crow	21:1–22
Genetic Recombination of Bacteria: A Discovery Account	J. Lederberg	21:23–46
Sewall Wright's Contribution to Physiological Genetics and to Inbreeding Theory and Practice	E. S. Russell	23:1–18
BACTERIAL GENETICS		
The Regulation of Transcription Initiation in Bacteria	W. S. Reznikoff, D. A. Siegele, D. W. Cowing, C. A. Gross	19:355–88
Genetic Analyses of DNA Repair: Inference and Extrapolation	G. C. Walker, L. Marsh, L. A. Dodson	19:103–26
Ribosomal Genes in *Escherichia coli*	L. Lindahl, J. M. Zengel	20:297–326
Regulation of Nitrogen Fixation Genes	G. N. Gussin, C. W. Ronson, F. M. Ausubel	20:567–91
The Conjugation System of F, the Fertility Factor of*Escherichia coli*	K. A. Ippen-Ihler, E. G. Minkley, Jr.	20:593–624
Genetics of Endospore Formation in *Bacillus subtilis*	R. Losick, P. Youngman, P. J. Piggot	20:625–69
Natural Variation in the Genetic Code	T. D. Fox	21:67–91
The Genetics of Active Transport in Bacteria	H. A. Shuman	21:155–77
Biological Regulation by Anti-Sense RNA in Prokaryotes	N. Kleckner, R. W. Simons	22:567–600
Genetic Control of Bacterial Virulence	V. DiRita, J. Mekalanos	23:455–82
Genetics of Proteolysis in *Escherichia Coli*	S. Gottesman	23:163–98
Prokaryotic Signal Transduction Mediated by Sensor and Regulator	L. M. Albright, E. Huala, F. M. Ausubel	23:311–36
BIOCHEMICAL GENETICS		
Structure and Evolution of the Insulin Gene	D. F. Steiner, S. J. Chan, J. M. Welsh, S. C. M. Kwok	19:463–84
Maize *Adh1*	M. Freeling, D. C. Bennett	19:297–324
Molecular Genetics of Membrane Phospholipid Synthesis	C. R. H. Raetz	20:253–95
Mendelian Hyperphenylalaninemia	C. R. Scriver, S. Kaufman, S. L. C. Woo	22:301–21
The Molecular Genetics of 21-Hydroxylase Deficiency	W. Miller, Y. Morel	23:371–93
CHROMOSOME BEHAVIOR		
Molecular Genetics of Transposable Elements in Plants	H.-P. Döring, P. Starlinger	20:175–200
Oncogene Activation by Chromosome Translocation in Human Malignancy	F. G. Haluska, Y. Tsujimoto, C. M. Croce	21:321–45

Regulation of DNA Replication During Drosophila Development	A. Spradling, T. Orr-Weaver	21:373–403
Mechanisms of the Effects of Aneuploidy in Mammals	C. J. Epstein	22:51–75
Control of Antigen Gene Expression in African Trypanosomes	E. Pays, M. Steinert	22:107–26
Recombination Between Repeated Genes in Microorganisms	T. D. Petes, C. W. Hill	22:147–68
CHROMOSOME STRUCTURE		
The Structure and Function of Yeast Centromeres	L. Clarke, J. Carbon	19:29–56
Selected Topics in Chromatin Structure	J. C. Eissenberg, I. L. Cartwright, G. H. Thomas, S. C. R. Elgin	19:485–536
Genomic Reorganization in Ciliated Protozoans	E. H. Blackburn, K. M. Karrer	20:501–21
Mechanisms that Contribute to the Stable Segregation of Plasmids	K. Nordström, S. J. Austin	23:37–69
The Isochore Organization of the Human Genome	G. Bernardi	23:637–61
DEVELOPMENTAL GENETICS		
Mouse *t* Haplotypes	L. M. Silver	19:179–208
tRNA, Suppression, and the Code	E. J. Murgola	19:57–80
Hybrid Genes: Molecular Approaches to Tissue-Specific Gene Regulation	J. H. Kelly, G. J. Darlington	19:273–96
The Genetic Analysis of Mammalian Cell-Cycle Mutants	M. Marcus, A. Fainsod, G. Diamond	19:389–422
Genetics of Drosophila Embryogenesis	A. P. Mahowald, P. A. Hardy	19:149–78
Homeotic Genes and the Homeobox	W. J. Gehring, Y. Hiromi	20:147–73
Genetic Control of Primary Sex Determination in Mice	E. M. Eicher, L. L. Washburn	20:327–60
Sex Determination and Dosage Compensation in *Caenorhabditis elegans*	J. Hodgkin	21:133–54
Alternative Promoters in Developmental Gene Expression	U. Schibler, F. Sierra	21:237–57
The Bithorax Complex	I. Duncan	21:285–319
Differential Imprinting and Expression of Paternal and Maternal Genomes	D. Solter	22:127–46
Molecular Structure of Human Chromosome 21	D. Kurnit, G. Stewart, M. L. Van Keuren, J. Galt, S. Kurachi, M. J. Buraczynska	23:409–23
Structure and Function of Telomeres	V. Zakian	23:579–604
EXTRACHROMOSOMAL INHERITANCE		
Comparative Organization of Chloroplast Genomes	J. D. Palmer	19:325–54
Recombinational Controls of rDNA Redundancy in Drosophila	R. S. Hawley, C. R. Marcus	23:87–120
PLANT AND FUNGAL GENETICS		
Basic Processes Underlying Agrobacterium-Mediated DNA Transfer to Plant Cells	P. Zambryski	22:1–30
Classical and Molecular Genetics of Tomato: Highlights and Perspectives	C. M. Rick, J. I. Yoder	22:281–300
Maize Developmental Genetics: Genes of Morphogenesis	W. F. Sheridan	22:353–85
Foreign Genes in Plants: Transfer, Structure and Applications	K. Weising, G. Kahl, J. Schell	22:421–77
Maize Transposable Elements	A. Gierl, H. Saedler, P. A. Peterson	23:71–85

The Molecular Genetics of Self-Incompatibility in *Brassica*	J. B. Nasrallah, M. E. Nasrallah	23:121–39
Habituation: Heritable Variation in the Requirement of Cultured Plant Cells for Hormones	F. Meins	23:395–408
Rhizobium Genetics	S. Long	23:483–506
GENE MUTATION		
In Vitro Mutagenesis	Michael Smith	19:423–62
Mutagenesis by Apurinic/Apyrimidinic Sites	L. A. Loeb, B. D. Preston	20:201–30
Mismatch Repair in *Escherichia coli*	M. Radman, R. Wagner	20:523–38
HUMAN GENETICS		
HPRT: Gene Structure, Expression, and Mutation	J. T. Stout, C. T. Caskey	19:127–48
Fragile X Syndrome: A Unique Mutation in Man	R. L. Nussbaum, D. H. Ledbetter	20:109–45
Genetics of Human Cancer	A. G. Knudson, Jr.	20:231–51
Mammalian Urea Cycle Enzymes	M. J. Jackson, A. L. Beaudet, W. E. O'Brien	20:431–64
HLA Disease Associations: Models for IDDM and the Study of Complex Human Genetic Disorders	G. Thomson	22:31–50
Linked Sets of Genetic Markers for Human Chromosomes	R. L. White, J. Lalouel	22:259–79
Genetics of Duchenne Muscular Dystrophy	R. G. Worton, M. W. Thompson	22:601–29
IMMUNOGENETICS		
Dissecting Multistep Tumorigenesis in Transgenic Mice	D. Hanahan	22:479–519
Mechanism and Developmental Program of Immunoglobulin Gene Rearrangement in Mammals	F. Alt, T. K. Blackwell	23:605–36
MAMMALIAN GENETICS		
Processed Pseudogenes: Characteristics and Evolution	E. F. Vanin	19:253–72
Germ-Line Transformation of Mice	R. D. Palmiter, R. L. Brinster	20:465–99
Mechanisms of X Chromosome Regulation	V. M. Chapman, S. G. Grant	22:199–33
Mammalian Genome Organization: An Evolutionary View	S. J. O'Brien, H. N. Seuanez, J. E. Womack	22:323–51
MOLECULAR GENETICS		
The *myc* Oncogene: Its Role in Transformation and Differentiation	M. D. Cole	20:361–84
Control of Multicellular Development: *Dictyostelium* and *Myxococcus*	D. Kaiser	20:539–66
Pre-mRNA Splicing	M. R. Green	20:671–708
Spliceosomal snRNAs	C. Guthrie, B. Patterson	22:387–419
Alternative Splicing in the Control of Gene Expression	B. Nadal-Ginard, C. W. J. Smith, J. G. Patton	23:527–77
POPULATION AND EVOLUTIONARY GENETICS		
Population Genetics	R. C. Lewontin	19:81–102
The Evolution of Multigene Families: Human Haptoglobin Genes	N. Maeda, O. Smithies	20:81–108
The Genetic System, the Deme, and the Origin of Species	H. L. Carson	21:405–23
Inferences of Phylogenies from Molecular Data and Their Reliability	J. Felsenstein	22:521–65

The Population Genetics of *Drosophila* Transposable Elements	B. Charlesworth, C. H. Langley	23:227–63
Evolutionary Quantitative Genetics: How Little Do We Know?	M. Turelli, N. H. Barton	23:337–70
Population Genetics and Evolution of Species Related to *Drosophila Melanogaster*	R. S. Singh	23:425–53
BEHAVIORAL GENETICS		
Neurogenetics of Membrane Excitability in *Drosophila*	B. Ganetzky, C.-F. Wu	20:13–44
Behavioral Genetics of Paramecium	Y. Saimi, C. Kung	21:47–65
Genetics of Biological Rhythyms in Drosophila	R. J. Konopka	21:227–36
Genetics of Alcoholism	E. J. Devor, C. R. Cloniger	23:19–36
RADIATION GENETICS		
RECOMBINATION		
The Mechanism of Conservative Site-Specific Recombination	N. L. Craig	22:77–105
DNA Double-Chain Breaks in Recombination of Phage Lambda and of Yeast	F. W. Stahl, D. S. Thaler	22:169–97
Homologous Recombination in Mammalian Cells	R. M. Liskay, R. J. Bollag, A. S. Waldman	23:199–225
REGULATION OF GENE AND CHROMOSOME FUNCTION		
Steroid Receptor Regulated Transcription of Specific Genes and Gene	K. R. Yamamoto	19:209–52
Mechanism and Control of Homologous Recombination in Escherichia	G. R. Smith	21:179–201
Regulatory Proteins in Yeast	L. Guarente	21:425–52
Multipartite Genetic Control Elements: Communication by DNA Loop	S. Adhya	23:227–50
Genetic Analysis of Protein Stability and Function	R. T. Sauer, A. A. Pakula	23:289–310
VIRAL GENETICS		
Recent Progress in Reovirus Research	W. K. Joklik	19:537–75
Adenovirus Promoters and E1A Transactivation	A. J. Berk	20:45–79
Mechanism of Bacteriophage Mu Transposition	K. Mizuuchi, R. Craigie	20:385–429
DNA Methylation in *Escherichia coli*	M. G. Marinus	21:113–31
Analysis of Alcohol Dehydrogenase Gene Expression in Drosophila	W. Sofer, P. F. Martin	21:203–25
The Essential Role of Recombination in Phage T4 Growth	G. Mosig	21:347–71
RNA 3' End Formation in the Control of Gene Expression	D. I. Friedman, M. J. Imperiale, S. L. Adhya	21:453–88
The Genetics of Bovine Papillomavirus Type 1	P. F. Lambert, C. C. Baker, P. M. Howley	22:235–58
The Heat-Shock Proteins	S. Lindquist, E. A. Craig	22:631–77
Adenovirus E1A Protein: Paradigm Viral Transactivator	T. Shenk, J. Flint	23:141–61
SPECIAL TOPICS		
Genetic Analysis of the Yeast Cytoskeleton	T. C. Huffaker, M. A. Hoyt, D. Botstein	21:259–84
Arabidopsis thaliana	E. M. Meyerowitz	21:93–111
Molecular Genetics of Nematode Muscle	P. Anderson	23:507–25